STANDARD LIST MICRO-IRRIGATION TECHNICIAN

SECTOR: AGRICULTURE

SUB-SECTOR: Precision Farming

REFERENCE ID: AGR/Q1002



State Council of Educational Research and Training(SCERT) Vidyabhavan, Poojappura, Thiruvananthapuram - 695 012 www.scert.kerala.gov.in

This list of equipment, tool, furniture&consumablesare prepared for a batch of 30 students

SL	Part A - EQUIPMEN		OHANTITY
NO	NAME	SPECIFICATION	QUANTITY
1	Drill machine (Battery type)	500-600W type	1
2	Drill bit set (for drill machine)	Spade type	2
3	Drill bit set (for drill machine)	Metal drill type	2
4	Drill bit set (for drill machine)	Wood drilling type	2
5	Drill guide	Metal	1
6	Pumping set (with pressure gauge and gate valve)	1 HP	1
7	Water meter	Standard	1
8	Sprinkler shut off valve	Brass type	1
9	Wheel valve	Brass type	1
10	butterfly valve	Brass type	1
11	ball valve	Brass type	1
12	Sprinkler back flow prevention device	Brass type	1
13	Sprinkler head- Rotor type		1
14	Sprinkler head- Impact type		1
15	Sprinkler head- Bubbler		1
16	Sprinkler head popup type		1
17	Sprinkler head adjustable type		1
18	By-pass valve		1
19	Venturiapparatus for fertigation	1/2"	1
20	Fertilizer tank		1
21	Fertilizer injector pump		1
22	Filter for sprinkler/drip system- screen filter		1
23	Sand filter - Filter for sprinkler/drip system	(optional)	1
24	Hydro-cyclone filter	(optional)	1
25	Dişc filter - Filter for sprinkler/drip system- disc filter	(optional)	1
26	Disc filter - Automatic		1
27	Micro irrigation head - Fan spray jet type		1
28	Micro irrigation head - Spray jet type		1
29	Micro irrigation head - Jet micro sprayer type		1
30	Micro irrigation head- Bubbler type	•	2
31	Adjustable dripper		10
32	Lateral lock	P 1	5
33	Online filter (for drip irrigation)		1

34	Pressure gauge		1
35	pressure regulator		1
36	Vacuum breaker (for drip irrigation)		1
37	Drip emitter – inline type (with 3m line)		1
38	Drip emitter - online type		30
39	Drip emitter- vortex type		30
40	Drip emitter- diaphragm type		10
41	Drip emitter - adjustable type		10
42	Isolation valve (for drip irrigation)		2
43	Control valve		2
44	Back flow preventer		2
45	Air vent		2
46	Flush Valve (for sprinkler/drip irrigation)	25mm	2
47	Control valve for sprinkler		1
48	Control unit for automatic irrigation		1
49	Solenoid valve		5
50	Pulsator sprinkler head		5

Part B - TOOLS and ACCESSORIES				
SL NO	NAME	SPECIFICATION	QUANTITY	
1	Pipe Wrench	8 inches	2	
2	Pipe Wrench	18 inches	2	
3	Spanner Set	Ring type	2	
4	Spanner Set	Double open-ended type	2	
5	Screw Driver set	standard	2	
6	Combination Plier/Lineman's plier	medium size	2	
7	Hack Saw Blade with Frame	toughened	2	
8	Measuring tape	30 mtrs	2	
9	Drip punch	stainless steel type	4	
10	Ďrip – side punch		2	
11	Dripper installation tool	130	2	
12	Take off tool		1	
13	Elbow joint		5	
14	bend joint		5	
15	Tee joint		5	
16	Female adapter (for drip irrigation)		2	
17	Male insert adapter (for drip irrigation)		2	

18	Reducer Tee	32-25mm	1
19	Riser pipe with tripod stand for sprinkler irrigation		5
20	Service saddle		1
21	End cap		5
22	PVC pipe coupling		2
23	Nipples (for drip irrigation)		1
24	Other accessories like rubber washer, straight connector, pin connector etc.		10 each
25	Pickaxe		1
26	Spade		5
27	Cross Staff		1
28	Crow bar		1
29	Rope		1
30	Trenching hoe		ź
31	Sickle		2
32	Shovel		2
33	Drip kit for terrace garden		1

	Part C - CONSU	MEBLES	
SL No	NAME	SPECIFICATION	QUANTITY (per batch)
1	Solvent cement	100ml	5packets
2	Teflon tape	fine	3roll
3	GI threaded joints synthetic compound	Shellac	1
4	- Pencil/ Marker pen		10
5	First Aid Kit	70	2
6	Lateral pipes for drip irrigation	12mm	50m
7	Lateral pipes for drip irrigation	16mm -	10m
8	PVC pipe	32mm (6kg/meter square)	10m
9	PVC pipe	25mm (6kg/square meter)	20m
10	Microtube		10 m

		Part E - FURNITURE	
1	Steel Almirah	Double door without mirror 78"x36"x18" or less	2
2	Steel Rack	{5 - SECTION } 5.3"[H] X 2.8"[L] X 1.4"[D] or less	2

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